1   ELECTRONIC WATERMARKING METHOD AND SYSTEM

2   Abstract

3   The present invention provides a watermarking method,
4   apparatus and system for embedding additive information
5   in digital data, in which one frame is defined as
6   including samples extracted from digital data and a
7   current frame is defined as a frame that is overlapped by
8   samples of a preceding frame. Included are: a
9   transformation unit, for multiplying a frame extracted
10   from digital data by a window function and performing a
11   Fourier transform on the digital data; an embedding unit,
12   for employing bit information and a frequency band to
13   change the amplitude of the frequency component in the
14   digital data; a transformation unit, for performing an
15   inverse Fourier transform to return the frequency
16   component whose amplitude has been changed by the
17   frequency domain embedding unit; and a frame generator,
18   for multiplying the time domain signal and superimposing
19   overlapped frames to generate a frame wherein the
20   additive information is embedded.

21   [Selected Drawing] Fig. 1